

Typical Feedback Control Panels (for experiments in C-hutch)

pid_parameters.adl

PID feedback parameters

KP	-0.008	P	0.000
KI	1.000	I	2.952
KD	0.000	D	0.000

Delta time 1.000

Error -0.036

Output 2.952

Low limit 2.700

High limit 3.300

pid_control.adl

KohzuFeedback

Readback PV 9fdb:mono_pid1_incalc,C NF

Control PV 9ida:DAC1_1_VAL NPP NMS

Setpoint 198.000

Readback 197.966

Feedback On

Update rate 1 second

More

9ida2.adl

Motors FOE	Scan B	UserCalcsB	MCS/MCA C	Save
QFM-WBS	Motors B	B RisoSlit	9IDShutter	Restore
Kohzu	Preamps B	9IDA1_1	FEEDBACK	Compare
Kohzu Motors	Scalers B	Motors C	OPS	Tools
Kohzu Slits	XIA SlitsB	Scan C	Beam	ScanConfig
Flags	Struck MCS B	Preamps C	vx	ScanTables
Motors SUE1	MCA B	XIA SlitsC	String	T= 91.22 K
SOE1 Slit	MAC B	Scalers C	Generic	P= mbar

All Stop ID-B

All Stop ID-SUE1/ID-C

All Stop ID-FOE

motorx.adl

Kohzu Chi2

(9ida:m15) degrees -0.71948

-0.71960

0.00050

Calib: Use Set

More STOP

Scan Ld Go Abort

motorx.adl

Kohzu Theta2

(9ida:m15) degrees 0.61324

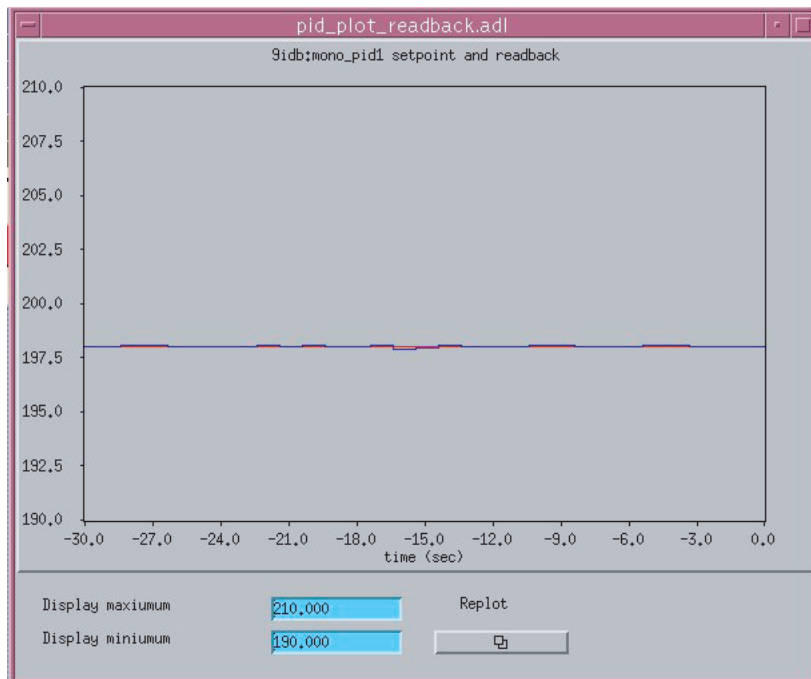
0.61324

0.00050

Calib: Use Set

More STOP

Scan Ld Go Abort



userTransform_full.adl

PID input calculation (9fdb:mono_pid1_incalc)

	COMMENT	INPUT PV NAME	EXPRESSION	VALUE	OUTPUT PV NAME
A	i0_1	9fdb:scaler1.S3 NPP NMS		132720.000	
B	i0_2	9fdb:scaler1.S4 NPP NMS		198252.000	
C	Output		$-\frac{(a-b)}{(a+b)} \times 1000$	197.939	
D				0.000	
E				0.000	
F				0.000	
G				0.000	
H				0.000	
I				0.000	
J				0.000	
K				0.000	
L				0.000	
M				0.000	
N				0.000	
O				0.000	
P				0.000	